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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/616,125	07/08/2003	Axel Grandt	JM-040	2218

7590

11/04/2005

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EXAMINER

PELLEGRINO, BRIAN E

ART UNIT

PAPER NUMBER

3738

DATE MAILED: 11/04/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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<b>Office Action Summary</b>	Application No. 10/616,125	Applicant(s) GRANDT, AXEL	
	Examiner Brian E Pellegrino	Art Unit 3738	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 02 September 2005.  
 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.  
 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-23 is/are pending in the application.  
     4a) Of the above claim(s) 3,4,9,10,13,14,19 and 20 is/are withdrawn from consideration.  
 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.  
 6) ☒ Claim(s) 1,2,5-8,11,12,15-18 and 21-23 is/are rejected.  
 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.  
 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.  
 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
     a) ☐ All    b) ☐ Some \* c) ☐ None of:  
         1. ☐ Certified copies of the priority documents have been received.  
         2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
         3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
     \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)   | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date <u>2/22/05</u> . | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Rejections - 35 USC § 102***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1,2,5-8,11,12,23 are rejected under 35 U.S.C. 102(b) as being anticipated by Yan (5843172). Fig. 2 shows a stent **20** formed of a tubular member with a lumen therein and a multiplicity of pores **18** in fluid communication with the lumen and the pores are circumferentially about an exterior surface and spaced at variable distances with respect to one another since they are randomly dispersed on the stent. Since the entire stent is coated with the polymer solution and then implanted, it is inherent the inner surface is covered with the agent and is disposed within the lumen of the stent and is then eluted upon degradation of the polymer, col. 5, lines 39-41,47-50. Yan also discloses a therapeutic agent is within a bioabsorbable polymer (col. 5, lines 1-6,30,31, col. 9, lines 16-19). Fig. 1 shows a stent with a plurality of upper peaks and lower peaks forming a ring. Please note the method of making the rings carries no weight, since product claims are not limited to how they are produced.

### ***Claim Rejections - 35 USC § 103***

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 15-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Globerman et al. (WO 96/26682) in view of Brown et al. (6071305). Fig. 5 shows a coiled stent **12** formed of a tubular member **14** with a lumen **16** therein. Globerman discloses the stent can have a multiplicity of pores in fluid communication with the lumen (page 7, lines 11-15) for a therapeutic agent disposed within the lumen to be eluted from the stent. Globerman also discloses the stent tubular member can be made of shape memory material, page 7, lines 9-10. However, Globerman fails to disclose the use of a bioabsorbable polymer to elute the therapeutic agent. Brown teaches that bioabsorbable polymers (col. 8, lines 62-65, col. 9, line 1) are used as means for controlling release into the lumen of the patient. It would have been obvious to one of ordinary skill in the art to use a bioabsorbable polymer with a therapeutic agent to deliver a therapeutic agent as taught by Brown with the stent of Globerman in order to provide a means to control the rate of delivery of the drug.

Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Globerman et al. '682 in view of Leone et al. (5882335). Globerman is explained supra. However, Globerman fails to disclose the pores are disposed circumferentially about an exterior surface of the tube. Leone shows (Fig. 5) a coil shape with the pores disposed circumferentially about the exterior surface of the tubular member. It would have been obvious to one of ordinary skill in the art to use circumferentially disposed pores as taught by Leone in the stent of Globerman such that therapeutic material can be evenly distributed within the vessel.

Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over Globerman et al. '682. Globerman is explained supra. However, Globerman fails to disclose the pores spaced at variable distances with respect to one another. It would have been an obvious matter of design choice to modify the location of the pores, since applicant has not disclosed that using variable distance locations between the pores provides any advantage, or solves a stated problem, or is used for any particular purpose. One of ordinary skill in the art, furthermore, would have expected Applicant's invention to perform equally well with the pore locations taught by Globerman or the claimed variable distance located pores in claim(s) 22 because both stents perform the same function of releasing therapeutic material through pores.

Claims 15,18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tower et al. (EP 1057460) in view of Globerman et al. (WO 96/26682) and Brown et al. '305. Tower discloses (Fig. 2) a plurality of rings affixed together to form the stent. Tower also discloses that the rings are formed from wire shaped into sinusoidal bends, col. 4, lines 55-58 and col. 5, lines 33-39. However, Tower fails to disclose the tubular members having pores and a lumen with therapeutic material therein. Drug eluting stents are well known in the art. Globerman is explained supra. Brown is explained supra. It would have been obvious to one of ordinary skill in the art to form the stent rings with a lumen to hold pharmaceutical material as taught by Globerman and use a biodegradable polymer as taught by Brown with the stent of Tower et al. to provide a controlled delivery therapeutic stent.

***Response to Arguments***

Applicant's arguments with respect to claims 1,15,23 have been considered but are moot in view of the new ground(s) of rejection.

***Conclusion***

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian E Pellegrino whose telephone number is 571-272-4756. The examiner can normally be reached on Monday-Thursday from 6:30am to 4pm. The examiner can also be reached on alternate Fridays. If attempts to reach the

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examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott, can be reached at 571-272-4756. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

TC 3700, AU 3738

**BRIAN E. PELLEGRINO**  
**PRIMARY EXAMINER**

A handwritten signature in cursive script that reads "Brian E. Pellegrino". The signature is written in black ink and is positioned below the printed name and title.